# SECRET



## 12-A CAMERA SYSTEM

This memorandum contains a brief description, numerical summary, and characteristics of the 12-A Camera System.

#### PANORAMIC CAMERA

The panoramic camera will operate in a vertical mode at altitudes between 65,000 and 75,000 feet. The camera will produce photography with an approximate scale of 1:35,000. Although a 55% overlap is provided, the unfavorable air base - height ratio (approximately 1 to 22) does not permit a favorable stereo model. The camera has a 70 degree scan angle, but vignetting at approximately 5 degrees from each end of the format permits approximately 60 degrees of useable coverage.

### CAMERA CHARACTERISTICS

Peteval f/3.5 Lens Focal Length 24 Inches Scan Angle 70 Degrees Shutter Focal Plane Film Load 70 mm x 7800 feet Film Type 4404 Filter OG 1 or Wratten 21 Scale at Nadir 1:35,000 Coverage per frame (60° scan) LATERAL 13.3 NM FORWARD 1.1 NM Total Coverage FORWARD 1296 NM 17,237 MM2 AREA Number of Frames 3,000

## FORMAT AND TITLING

Viewing a film positive, emulsion up, the titling will appear along the fiducial edge (the leading edge in direction of flight). Each frame will contain the following information in 12 point size lettering.

1. Frame Number

Image Motion Compensation

4 digits

Proportional to V/H ratio

Excluded from automatic downgrading and

2. Mission Number

4 digits

- 4. Date of Mission
- 5. Classification

Frames will be numbered consecutively from head to tail on each mission.

#### TRACKING CAMERA

A tracking camera will be used to provide time data and imagery for correlation with the main panoramic camera. This camera is a 3" focal length, horizon to horizon ( $180^{\circ}$  scan) panoramic camera with a format size of 2.37 inches x +0.635 inches. A clock will be superimposed on the format to provide the time of the exposure.

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